

WHAT IS CLAIMED IS:

1. A mechanism for pivotably coupling a notebook computer and a display thereof together, the notebook computer including a housing having a forward recess with a keyboard received therein, comprising:

5 a substantially rectangular pivot board received in a rearward recess of the housing, the pivot board having a forward side hingedly coupled to the keyboard and a rearward side hingedly coupled to the display so that the display is adapted to pivot upward for adjusting height and position thereof relative to the housing; and

10 plate-shaped latch device under the pivot board in the housing, the latch device comprising an elongate latch board at either side, a trigger between the latch boards, a finger tab on a top of the trigger, the finger tab being projected from an opening of the pivot board, and a latch member at an outer end of either latch board distal from the trigger, the latch members being projected from the 15 housing to snap into side cavities of the pivot board for securing the pivot board to the housing together,

20 whereby moving the trigger forwardly will causes the latch members to move toward left and right sides of the housing to disengage the latch members from the pivot board so as to be adapted to pivot the pivot board and the display upward for adjusting the height and the position of the display relative to the housing.

25 2. The mechanism of claim 1, wherein the latch board comprises a first inclined surface at one side adjacent the trigger and the trigger comprises a second inclined surface at either side adapted to matingly couple to the first inclined surface, whereby moving the trigger forwardly will cause the first inclined surfaces to move toward the left and the right sides of the housing, will cause the latch members to move toward the left and the right sides to disengage the latch

members from the pivot board, and will cause the pivot bard and the display to pivot upward for adjusting the height and the position of the display relative to the housing.

3. The mechanism of claim 2, further comprising a plurality of first apertures on the trigger so that a plurality of screws are adapted to drive through the first apertures to moveably fasten the trigger at a bottom of the housing.
4. The mechanism of claim 3, further comprising a plurality of second apertures on either latch board so that a plurality of screws are adapted to drive through the second apertures to moveably fasten the latch board at the bottom of the housing.
5. The mechanism of claim 4, further comprising a lateral tunnel at either latch member facing inside of the housing and a first resilient element anchored in the tunnel, the first resilient element having an outer end biased against inside of the housing, whereby moving the trigger forwardly will move the latch boards to disengage the latch members from the pivot board by compressing the first resilient element, and moving the trigger rearward will move the latch boards inward to engage the latch members with the pivot board by expanding the first resilient element.
6. The mechanism of claim 1, further comprising two side holes in the rearward recess of the housing, a button in either side hole, the button having an upper part projected from the side hole and a lower part concealed inside the housing, a disk-shaped seat having a diameter slightly larger than that of the side hole disposed at a lower part of either button, and a second resilient element under either button, a bottom of the second resilient element being urged against the bottom of the housing so that in response to the disengagement of the latch members from the pivot board, the buttons are adapted to push the pivot board upward by expanding the second resilient

elements and clear the pivot board from the rearward recess of the housing.

7. The mechanism of claim 1, further comprising two spaced first pivot tubes at the forward side of the pivot board and two first pins inserted into the first pivot tubes and the housing with one ends of the first pins concealed in the first pivot tubes and the other ends thereof concealed in the housing respectively for pivotably coupling the pivot board to the housing.
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8. The mechanism of claim 7, further comprising two spaced second pivot tubes at the rearward side of the pivot board and two second pins inserted into the second pivot tubes and the display with one ends of the second pins concealed in the second pivot tubes and the other ends thereof concealed in the housing respectively for pivotably coupling the pivot board to the display.
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